



Attorney Docket No.: 600-1-087 CIP2I

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Jeffrey Friedman, et al)
Serial No.: 08/485,943)
Filed: June 7, 1995)
For: MODULATORS OF BODY)
WEIGHT, CORRESPONDING)
NUCLEIC ACIDS PROTEINS)
AND DIAGNOSTIC AND)
THERAPEUTIC USES THEREOF)

RECEIVED

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MATRIX CUSTOMER
SERVICE CENTER

Group Art Unit: 1805

Examiner: J. Railey

INFORMATION DISCLOSURE STATEMENT
WITH FORM PTO-1449

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In compliance with 37 C.F.R. §1.97 and the continuing duty of disclosure under 37 C.F.R. §1.56, the applicants call to the attention of the examiner the enclosed documents, listed on the attached Form PTO-1449, which may be considered material to the examination of the above-identified patent application.

As a courtesy to the examiner and for ease of review, the applicants believe that the documents listed on the accompanying Form PTO-1449 may be organized as set forth below (each listing includes: Form PTO-1449 document number, title, inventor(s), patent number and/or application number, filing date, publication date, and, where applicable, priority dates). As a further courtesy to the examiner, the applicants have included, as Appendix A, a copy of the front page of each patent or patent application listed in the IDS and PTO Form-1449.

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01 FC:125

Pursuant to 37 C.F.R. §1.98(d), copies of the documents are not included herewith since they have been provided in USSN 08/292,345, filed August 17, 1994, and USSN 08/347,563, filed November 30, 1994, which are relied upon under 35 U.S.C. 120 for an earlier filing date in the instant application.

I. PEPTIDES

A. Full or Truncated

Documents:

- A1 Title: "Anti-Obesity Proteins"
Inventors: DiMarchi *et al.*
U.S. Patent No.: 5,521,283
U.S. Appl. No.: 381,666
Filed: January 31, 1995
- A2 Title: "Anti-Obesity Proteins"
Inventors: DiMarchi *et al.*
U.S. Patent No.: 5,525,705
U.S. Appl. No.: 381,370
Filed: January 31, 1995
- A3 Title: "Anti-Obesity Proteins"
Inventors: DiMarchi *et al.*
U.S. Patent No.: 5,532,336
U.S. Appl. No.: 381,034
Filed: January 31, 1995
- A4 Title: "Anti-Obesity Proteins"
Inventors: DiMarchi *et al.*
U.S. Patent No.: 5,552,522
U.S. Appl. No.: 381, 040
Filed: January 31, 1995
- A9 Title: "Anti-Obesity Proteins"
Inventors: DiMarchi *et al.*
U.S. Patent No.: 5,563,243
U.S. Appl. No.: 381,037
Filed: January 31, 1995
- A10 Title: "Anti-Obesity Proteins"
Inventors: DiMarchi *et al.*
U.S. Patent No.: 5,563,244
U.S. Appl. No.: 381,050
Filed: January 31, 1995
- A11 Title: "Anti-Obesity Proteins"
Inventors: DiMarchi *et al.*
U.S. Patent No.: 5,563,245
U.S. Appl. No.: 381,163
Filed: January 31, 1995

- A12 Title: "Anti-Obesity Proteins"
Inventors: DiMarchi *et al.*
U.S. Patent No.: 5,567,678
U.S. Appl. No.: 381,041
Filed: January 31, 1995
- A13 Title: "Anti-Obesity Proteins"
Inventors: Basinski *et al.*
U.S. Patent No.: 5,567,803
U.S. Appl. No.: 383,649
Filed: February 6, 1995
Priority Data: January 31, 1995 (U.S. Appl. No. 381,047)
- A14 Title: "Anti-Obesity Proteins"
Inventors: DiMarchi *et al.*
U.S. Patent No.: 5,569,743
U.S. Appl. No.: 381,054
Filed: January 31, 1995
- A15 Title: "Anti-Obesity Proteins"
Inventors: Basinski *et al.*
U.S. Patent No.: 5,569,744
U.S. Appl. No.: 383,632
Filed: February 6, 1995
Priority Data: January 31, 1995 (U.S. Appl. No. 381,247)
- A16 Title: "Anti-Obesity Proteins"
Inventors: DiMarchi *et al.*
U.S. Patent No.: 5,574,133
U.S. Appl. No.: 381,049
Filed: January 31, 1995
- A17 Title: "Anti-Obesity Proteins"
Inventors: DiMarchi *et al.*
U.S. Patent No.: 5,580,954
U.S. Appl. No.: 381,057
Filed: January 31, 1995
- A19 Title: "Anti-Obesity Proteins"
Inventors: Basinski *et al.*
U.S. Patent No.: 5,594,104
U.S. Appl. No.: 384,492
Filed: February 6, 1995
Priority Data: January 31, 1995 (U.S. Appl. No. 381,266)

- A20 Title: "Anti-Obesity Proteins"
Inventors: Basinski *et al.*
U.S. Patent No.: 5,605,886
U.S. Appl. No.: 442,916
Filed: May 17, 1995
Priority Data: February 6, 1995 (U.S. Appl. No. 383,648)
January 31, 1995 (U.S. Appl. No. 381,265)
- A23 Title: "Anti-Obesity Proteins"
Inventors: Basinski *et al.*
U.S. Patent No.: 5,691,309
U.S. Appl. No.: 383,650
Filed: February 6, 1995
Priority Data: January 31, 1995 (U.S. Appl. No. 381,451)
- B1 Title: "Anti-Obesity Proteins"
Inventors: Basinski *et al.*
Appl. No.: 96300612.7
Filed: January 29, 1996
Publication No.: EP 0 725 078 A1
Publication Date: August 7, 1996
Priority Data: January 31, 1995 (U.S. Appl. No. 381,048)
February 6, 1995 (U.S. Appl. No. 383,638)
- B2 Title: "Anti-Obesity Proteins"
Inventors: Basinski *et al.*
Appl. No.: 96300613.5
Filed: January 29, 1996
Publication No.: EP 0 725 079 A1
Publication Date: August 7, 1996
Priority Data: January 31, 1995 (U.S. Appl. No. 381,048)
February 6, 1995 (U.S. Appl. No. 383,638)
June 22, 1995 (U.S. Appl. No. 60/000,450)
August 11, 1995 (U.S. Appl. No. 60/002,161)
- B3 Title: "Rat Obese Gene, Its Gene Product and Its Production"
Inventors: Nakao *et al.*
Appl. No.: 96105353.5
Filed: April 3, 1996
Publication No.: EP 0 736 599 A2
Publication Date: October 9, 1996
Priority Data: April 3, 1995 (JP Appl. No. 77966/95)

- B5 Title: "Obesity Gene Product"
Inventors: Hsiung *et al.*
Appl. No.: 96303478.0
Filed: May 16, 1996
Publication No.: EP 0 743 321 A2
Publication Date: November 20, 1996
Priority Data: May 19, 1995 (US Appl. No. 445,305)
- B6 Title: "Rhesus OB Protein and DNA"
Inventors: Basinski *et al.*
Appl. No.: 96303601.7
Filed: May 21, 1996
Publication No.: EP 0 744 408 A2
Publication Date: November 27, 1996
Priority Data: May 26, 1995 (U.S. Appl. No. 452,228)
May 26, 1995 (U.S. Appl. No. 451,335)
- B15 Title: "Rat Obese Gene, Product and Method of Producing Thereof"
Inventors: Fujisawa *et al.*
Appl. No.: 96JP-0079916
Filed: April 2, 1996
Publication No.: JP 8-333394
Publication Date: December 17, 1996
Priority Data: April 3, 1995 (JP Appl. No. 95JP-0077966)
- B20 Title: "Anti-Obesity Proteins"
Inventors: Basinski *et al.*
Appl. No.: PCT/US96/00947
Filed: January 29, 1996
Publication No.: WO 96/23514
Publication Date: August 8, 1996
Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,247)
January 31, 1995 (U.S. Appl. No. 08/381,451)
January 31, 1995 (U.S. Appl. No. 08/381,266)
January 31, 1995 (U.S. Appl. No. 08/381,370)
January 31, 1995 (U.S. Appl. No. 08/381,047)
January 31, 1995 (U.S. Appl. No. 08/381,041)
January 31, 1995 (U.S. Appl. No. 08/381,057)
January 31, 1995 (U.S. Appl. No. 08/381,050)
January 31, 1995 (U.S. Appl. No. 08/381,034)
January 31, 1995 (U.S. Appl. No. 08/381,040)
January 31, 1995 (U.S. Appl. No. 08/381,163)
January 31, 1995 (U.S. Appl. No. 08/381,054)

January 31, 1995 (U.S. Appl. No. 08/381,666)
January 31, 1995 (U.S. Appl. No. 08/381,049)
January 31, 1995 (U.S. Appl. No. 08/381,037)
February 6, 1995 (U.S. Appl. No. 08/383,632)
February 6, 1995 (U.S. Appl. No. 08/384,492)
February 6, 1995 (U.S. Appl. No. 08/383,649)
February 6, 1995 (U.S. Appl. No. 08/383,650)

B21 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*
Appl. No.: PCT/US96/00948
Filed: January 29, 1996
Publication No.: WO 96/23515
Publication Date: August 8, 1996
Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,048)
February 6, 1995 (U.S. Appl. No. 08/383,638)

B22 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*
Appl. No.: PCT/US96/00950
Filed: January 29, 1996
Publication No.: WO 96/23516
Publication Date: August 8, 1996
Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,265)
February 6, 1995 (U.S. Appl. No. 08/383,648)
May 17, 1995 (U.S. Appl. No. 08/442,916)

B23 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*
Appl. No.: PCT/US96/00952
Filed: January 29, 1996
Publication No.: WO 96/23517
Publication Date: August 8, 1996
Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,048)
February 6, 1995 (U.S. Appl. No. 08/383,638)
June 22, 1995 (U.S. Appl. No. 60/000,450)
August 11, 1995 (U.S. Appl. No. 60/002,161)

- B33 Title: "Biologically Active Peptide Fragments of OB Protein"
Inventors: Smith *et al.*
Appl. No.: PCT/GB96/01094
Filed: May 7, 1996
Publication No.: WO 96/34885
Publication Date: November 7, 1996
Priority Data: May 5, 1995 (GB Appl. No. 9509164.1)
- B36 Title: "Obesity Gene Product"
Inventors: Hsiung *et al.*
Appl. No.: PCT/US96/07045
Filed: May 16, 1996
Publication No.: WO 96/36644
Publication Date: November 21, 1996
Priority Data: May 19, 1995 (U.S. Appl. No. 08/445,305)
- B37 Title: "Rhesus OB Protein and DNA"
Inventors: Basinski *et al.*
Appl. No. PCT/US96/07329
Filed: May 21, 1996
Publication No.: WO 96/37517
Publication Date: November 28, 1996
Priority Data: May 26, 1995 (U.S. Appl. No. 08/451,335)
May 26, 1995 (U.S. Appl. No. 08/452,228)
- B47 Title: "Polypeptide Fragments Derived From The Obese Gene Product"
Inventors: Mapelli *et al.*
Appl. No.: PCT/US96/17365
Filed: October 28, 1996
Publication No.: WO 97/16550
Publication Date: May 9, 1997
Priority Data: Nov.2, 1995 (U.S. Appl. No. 60/007,789)
- B51 Title: "Mutational Variants Of Mammalian Ob Gene Proteins"
Inventors: Altmann *et al.*
Appl. No.: PCT/US96/18561
Filed: December 3, 1996
Publication No.: WO 97/20933
Publication Date: June 12, 1997
Priority Data: Dec. 6, 1995 (U.S. Appl. No. 08/568,077)

- B68 Title: "Fragments of Leptin (OB Protein)"
Inventors: Al-Barazanji *et al.*
Appl. No.: PCT/EP97/02968
Filed: June 4, 1997
Publication No.: WO 97/46585
Publication Date: December 11, 1997
Priority Data: June 6, 1996 (G.B. Appl. No. 9611775.9)
Sept. 5, 1996 (G.B. Appl. No. 9618540.0)
Feb. 20, 1997 (G.B. Appl. No. 9703493.8)
- B76 Title: "Canine OB Protein Compositions And Methods"
Inventor: Hernday, N.
Appl. No.: PCT/US97/03209
Filed: February 28, 1997
Publication No.: WO 97/32022
Publication Date: September 4, 1997
Priority Data: March 1, 1996 (U.S. Appl. No. 08/609,408)

B. Thioether Bond

Documents:

- A18 Title: "Anti-obesity Proteins"
Inventors: Becker *et al.*
U.S. Patent No.: 5,594,101
U.S. Appl. No.: 398,021
Filed: March 3, 1995
- B29 Title: "Anti-obesity Proteins"
Inventors: Becker *et al.*
Appl. No.: PCT/US96/02932
Filed: March 1, 1996
Publication No.: WO 96/27385
Publication Date: September 12, 1996
Priority Data: March 3, 1995 (U.S. Appl. No. 08/398,021)
- B41 Title: "Obesity Protein Intermediates and Their Preparation and Use"
Inventors: Hale *et al.*
Appl. No.: PCT/US96/10613
Filed: June 20, 1996
Publication No.: WO 97/00886
Publication Date: January 9, 1997
Priority Data: June 22, 1995 (U.S. Appl. No. 60/000,451)

C. *Cross-Linked*

Documents:

- A5 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*
U.S. Patent No.: 5,552,523
U.S. Appl. No.: 384,183
Filed: February 6, 1995
Priority Data: January 31, 1995 (U.S. Appl. No. 381,458)
- A6 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*
U.S. Patent No.: 5,552,524
U.S. Appl. No.: 384,292
Filed: February 6, 1995
Priority Data: January 31, 1995 (U.S. Appl. No. 381,661)
- A7 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*
U.S. Patent No.: 5,554,727
U.S. Appl. No.: 383,631
Filed: February 6, 1995
Priority Data: January 31, 1995 (U.S. Appl. No. 381,033)
- A8 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*
U.S. Patent No.: 5,559,208
U.S. Appl. No.: 383,639
Filed: February 6, 1995
Priority Data: January 31, 1995 (U.S. Appl. No. 381,031)
- B19 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*
Appl. No.: PCT/US96/00946
Filed: January 29, 1996
Publication No.: WO 96/23513
Publication Date: August 8, 1996
Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,661)
February 6, 1995 (U.S. Appl. No. 08/384,292)

B24 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*
Appl. No.: PCT/US96/01345
Filed: January 29, 1996
Publication No.: WO 96/23518
Publication Date: August 8, 1996
Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,031)
February 6, 1995 (U.S. Appl. No. 08/383,639)

B25 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*
Appl. No.: PCT/US96/01412
Filed: January 29, 1996
Publication No.: WO 96/23519
Publication Date: August 8, 1996
Priority Data: Jan. 31, 1995 (U.S. Appl. No. 08/381,458)
Feb. 6, 1995 (U.S. Appl. No. 08/384,183)

B26 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*
Appl. No.: PCT/US96/01415
Filed: January 29, 1996
Publication No.: WO 96/23520
Publication Date: August 8, 1996
Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,033)
February 6, 1995 (U.S. Appl. No. 08/383,631)

D. Other Modifications

Documents:

B4 Title: "Recombinant Obese (Ob) Proteins"
Inventors: Campfield *et al.*
Appl. No.: 96106408.6
Filed: April 24, 1996
Publication No.: EP 0 741 187 A2
Publication Date: November 6, 1996
Priority Data: May 5, 1995 (U.S. Appl. No. 435,777)
June 7, 1995 (U.S. Appl. No. 484,629)

- B16 Title: "Recombinant Obese (OB) Protein"
Inventors: Campfield *et al.*
Appl. No.: 96JP-0112739
Filed: May 7, 1996
Publication No.: JP 9-3098
Publication Date: January 7, 1997
Priority Data: June 7, 1995 (Appl. No. 95US-0484629)
May 5, 1995 (Appl. No. 95US-0435777)
- B18 Title: "Appetite Suppression Factor and Related Methods"
Inventor: Weigle *et al.*
Appl No.: PCT/US96/01471
Filed: January 22, 1996
Publication No.: WO 96/22308
Publication Date: July 25, 1996
Priority Data: January 20, 1995 (U.S. Appl. No. 08/377,068)
April 10, 1995 (U.S. App. No. 08/419,214)
June 7, 1995 (U.S. Appl. No. 08/486,459)
June 7, 1995 (U.S. Appl. No. 08/487,111)
June 7, 1995 (U.S. Appl. No. 08/486,450)
October 4, 1995 (U.S. Appl. No. 08/540,242)
- B40 Title: "Chimeric Leptin Fused to Immunoglobulin Domain and Use"
Inventors: Browne *et al.*
Appl No.: PCT/GB96/01388
Filed: June 11, 1996
Publication No.: WO 97/00319
Publication Date: January 3, 1997
Priority Data: June 13, 1995 (GB Appl. No. 9511935.0)
- B52 Title: "Ob Protein Derivatives Having Prolonged Half-Life"
Inventors: De Sauvage *et al.*
Appl. No.: PCT/US96/20718
Filed: December 19, 1996
Publication No.: WO 97/24440
Publication Date: July 10, 1997
Priority date: Dec. 27, 1995 (U.S. Appl. No. 08/579,494)
June 20, 1996 (U.S. Appl. No. 08/667,184)

- B69 Title: "Ob Protein Binding Protein"
Inventor: Becker, G.W.
Appl. No.: PCT/US97/09891
Filed: June 6, 1997
Publication No.: WO 97/46587
Publication Date: December 11, 1997
Priority Data: June 7, 1996 (U.S. Appl. No. 60/019,284)
- B77 Title: "Fibulin Pharmaceutical Compositions And Related Methods"
Inventor: Bennett, L.G.
Appl. No.: PCT/US97/06280
Filed: April 3, 1997
Publication No.: WO 97/38014
Publication Date: October 16, 1997
Priority Data: April 4, 1996 (U.S. Appl. No. 08/627,636)

II. METHODS FOR THE PREPARATION OF ANTI-OBESITY PROTEINS

Documents:

- A21 Title: "Process For Preparing Anti-Obesity Protein"
Inventor: Mackellar, W.C.
U.S. Patent No.: 5,614,379
U.S. Appl. No.: 429,362
Filed: April 26, 1995
- B7 Title: "Process For Preparing Anti-Obesity Protein"
Inventor: Mackellar, W.C.
Appl. No.: 96302805.5
Filed: April 22, 1996
Publication No.: EP 0 745 610 A2
Publication Date: December 4, 1996
Priority Data: April 26, 1995 (U.S. Appl. No. 429,362)
- B31 Title: "Anti-Obesity Agents"
Inventors: Beeley *et al.*
Appl. No.: PCT/US96/04909
Filed: April 5, 1996
Publication No.: WO 96/31526
Publication Date: October 10, 1996
Priority Data: April 6, 1995 (U.S. Appl. No. 08/419,598)

B32 Title: "Process For Preparing Anti-Obesity Protein"
Inventor: Mackellar, W.C.
Appl. No.: PCT/US96/05703
Filed: April 24, 1996
Publication No.: WO 96/34111
Publication Date: October 31, 1996
Priority Data: April 26, 1995 (U.S. Appl. No. 08/429,362)

III. OB GENE PRODUCT ANTIBODIES

Documents:

B27 Title: "OB Gene Product Antibodies"
Inventors: Heath *et al.*
Appl. No.: PCT/US96/00957
Filed: January 29, 1996
Publication No.: WO 96/23815
Publication Date: August 8, 1996
Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,264)

IV. OB DNA-RELATED

A. DNA

Documents:

B9 Title: "DNA Encoding Primate Leptins as Medicinal Proteins"
Inventors: Basinski *et al.*
Appl. No.: 96306721.0
Filed: September 16, 1996
Publication No.: EP 0 764 722 A2
Publication Date: March 26, 1997
Priority Data: September 19, 1995 (U.S. Appl. No. 3,935)
September 19, 1995 (U.S. Appl. No. 3,936)

B28 Title: "Human Obesity Gene"
Inventors: Basinski *et al.*
Appl. No.: PCT/US96/01411
Filed: January 29, 1996
Publication No.: WO 96/24670
Publication Date: August 15, 1996
Priority Data: Feb. 6, 1995 (U.S. Appl. No. 08/384,493)
May 26, 1995 (U.S. Appl. No. 08/451,250)

- B34 Title: "Nucleic Acids For Treating Obesity"
Inventors: Giese *et al.*
Appl. No.: PCT/US96/06609
Filed: May 8, 1996
Publication No. WO 96/35787
Publication Date: November 14, 1996
Priority Data: May 8, 1995 (U.S. Appl. No. 08/437,834)
- B39 Title: "Method For The Detection Of Compounds That Modulate The Effects Of The Obese Protein"
Inventors: Beeley *et al.*
Appl. No.: PCT/EP96/02291
Filed: May 28, 1996
Publication No.: WO 96/38586
Publication Date: December 5, 1996
Priority Data: May 30, 1995 (G.B. Appl. No. 9510857.7)
June 8, 1995 (G.B. Appl. No. 9511602.6)
- B43 Title: "DNA Encoding Medicinal Proteins"
Inventors: Basinski *et al.*
Appl. No.: PCT/US96/14810
Filed: September 16, 1996
Publication No.: WO 97/11192
Publication Date: March 27, 1997
Priority Data: Sept. 19, 1995 (U.S. Appl. No. 60/003,935)
Sept. 19, 1995 (U.S. Appl. No. 60/003,936)

B. Gene Regulation

Documents:

- A24 Title: "Transcriptional Promoter Of The Murine Obesity Gene"
Inventors: de la Brousse *et al.*
U.S. Patent No.: 5,698,389
Appl. No.: 558,545
Filed: November 16, 1995

- B30 Title: "Modulators Of OB Gene And Screening Methods Therefor"
Inventors: Briggs *et al.*
Appl. No.: PCT/US96/03808
Filed: March 19, 1996
Publication No.: WO 96/29405
Publication Date: September 26, 1996
Priority Data: March 20, 1995 (U.S. Appl. No. 08/408,584)
April 5, 1995 (U.S. Appl. No. 08/418,096)
August 2, 1995 (U.S. Appl. No. 08/510,584)
October 30, 1995 (U.S. Appl. No. 08/558,588)
Nov. 21, 1995 (U.S. Appl. No. 60/007,390)
Nov. 30, 1995 (U.S. Appl. No. 60/007,721)
Dec. 14, 1995 (U.S. Appl. No. 60/008,601)
- B49 Title: "The Transcriptional Promoter Of The Obesity Gene"
Inventors: de la Brousse *et al.*
Appl. No.: PCT/US96/18474
Filed: November 18, 1996
Publication No.: WO 97/18228
Publication Date: May 22, 1997
Priority date: Nov. 16, 1995 (U.S. Appl. No. 08/558,545)

V. METHODS/MEDICAL DIAGNOSIS OR TREATMENT

A. *Methods for Treatment of Obesity*

Documents:

- B17 Title: "Compositions And Methods For The Treatment Of Body Weight Disorders, Including Obesity"
Inventor: Tartaglia, L.
Appl. No.: PCT/US95/10918
Filed: August 23, 1995
Publication No.: WO 96/05861
Publication Date: February 29, 1996
Priority Data: August 23, 1994 (U.S. Appl. No. 294,522)
June 6, 1995 (U.S. Appl. No. 470,868)

- B48 Title: "Inhibition Of Fatty Acid Synthase As A Means To Reduce Adipocyte Mass"
Inventors: Kuhajda *et al.*
Appl. No.: PCT/US96/17678
Filed: November 15, 1996
Publication No.: WO 97/18806
Publication Date: May 29, 1997
Priority Data: Nov. 17, 1995 (U.S. Appl. No. 60/006,940)
- B 71 Title: "OB Protein Compositions and Method"
Inventors: Pelleymounter *et al.*
Appl. No.: PCT/US96/08225
Filed: May 30, 1996
Publication No.: WO 96/40912
Publication Date: December 19, 1996
Priority Data: June 7, 1995 (U.S. Appl. No. 08/474.833)
- B72 Title: "Methods of Reducing Or Maintaining Reduced Levels of Blood Lipids Using OB Protein Compositions"
Inventors: Pelleymounter *et al.*
Appl. No.: PCT/US96/12674
Filed: August 2, 1996
Publication No.: WO 97/06816
Publication Date: February 27, 1997
Priority Data: August 17, 1995 (U.S. Appl. No. 08/516,263)

B. Methods for Treatment of Diabetes

Documents:

- B42 Title: "Methods For Treating Diabetes"
Inventor: Stephens, T.W.
Appl. No.: PCT/US96/10983
Filed: June 26, 1996
Publication No.: WO 97/02004
Publication Date: January 23, 1997
Priority Data: June 30, 1995 (U.S. Appl. No. 60/000,718)

C. *Methods for Treatment/Combination Therapy*

Documents:

- B8 Title: "Methods Of Treating Neuropeptide Y-Associated Conditions"
Inventors: Bue-Valleskey *et al.*
Appl. No.: 96304723.8
Filed: June 26, 1996
Publication No.: EP 0 759 441 A2
Publication Date: February 26, 1997
Priority Data:
June 30, 1995 (U.S. Appl. No. 740)
October 27, 1995 (U.S. Appl. No. 5910)
June 30, 1995 (U.S. Appl. No. 752)
October 27, 1995 (U.S. Appl. No. 5911)
- B35 Title: "Susceptibility Gene For Obesity And Type II Diabetes Mellitus"
Inventors: Shuldiner *et al.*
Appl. No.: PCT/US96/07218
Filed: May 17, 1996
Publication No.: WO 96/36641
Publication Date: November 21, 1996
Priority Data: May 19, 1995 (U.S. Appl. No. 08/446,530)
- B44 Title: "Liposome Formulations Of 5β Steroids"
Inventors: Rubinfeld *et al.*
Appl. No.: PCT/US96/15507
Filed: September 27, 1996
Publication No.: WO 97/13500
Publication Date: April 17, 1997
Priority Data: Oct. 12, 1995 (U.S. Appl. No. 08/542,083)
- B46 Title: "Combination Therapy For The Treatment Of Diabetes And Obesity"
Inventor: Smith, R.G.
Appl. No.: PCT/US96/17444
Filed: October 31, 1996
Publication No.: WO 97/16189
Publication Date: May 9, 1997
Priority Data: Nov. 1, 1995 (U.S. Appl. No. 60/007,138)
Feb. 22, 1996 (G.B. Appl. No. 9603724.7)

D. Methods for Treatment/Other

Documents:

- B38 Title: "Methods For Treating Anorexia"
Inventor: Beasley, C.M. Jr.
Appl. No.: PCT/US96/07467
Filed: May 23, 1996
Publication No.: WO 96/38152
Publication Date: December 5, 1996
Priority Data: June 1, 1995 (U.S. Appl. No. 08/457,249)
- B45 Title: "Methods For Restoring Or Enhancing Reproductive Function In Reproductively Impaired Hosts"
Inventor: Chehab, F.F.
Appl. No.: PCT/US96/17163
Filed: October 22, 1996
Publication No.: WO 97/15322
Publication Date: May 1, 1997
Priority Data: Oct. 22, 1995 (U.S. Appl. No. 60/006,106)
- B60 Title: "Methods For Using The Obese Gene And Its Gene Product To Stimulate Hematopoietic Development"
Inventors: Snodgrass *et al.*
Appl. No.: PCT/US97/00767
Filed: January 21, 1997
Publication No.: WO 97/27286
Publication Date: July 31, 1997
Priority Data: January 23, 1996 (U.S. Appl. No. 08/589,915)
March 20, 1996 (U.S. Appl. No. 08/618,957)
Sept. 13, 1996 (U.S. Appl. No. 08/713,296)
- B73 Title: "Methods of Increasing Lean Tissue Mass Using OB Protein Compositions"
Inventors: Pelleymounter *et al.*
Appl. No.: PCT/US96/17718
Filed: November 4, 1996
Publication No.: WO 97/18833
Publication Date: May 29, 1997
Priority Data: Nov. 22, 1995 (U.S. Appl. No. 08/561,732)

VI. OBESITY PROTEIN FORMULATIONS

Documents:

- B10 Title: "Obesity Protein Formulations"
Inventors: Beals *et al*
Appl. No.: 97300299.1
Filed: January 17, 1997
Publication No.: EP 0 784 979 A2
Publication Date: July 23, 1997
Priority Data: February 7, 1996 (GB Appl. No. 9602408)
January 19, 1996 (U.S. Appl. No. 10229)
- B11 Title: Obesity Protein Formulations"
Inventors: Beals *et al.*
Appl. No.: 97300300.7
Filed: January 17, 1997
Publication No.: EP 0 784 981 A2
Publication Date: July 23, 1997
Priority Data: February 7, 1996 (G.B. Appl. No. 9602410)
January 19, 1996 (U.S. Appl. No. 10357)
- B12 Title: Obesity Protein Formulations"
Inventors: Beals *et al.*
Appl. No.: 97300302.3
Filed: January 17, 1997
Publication No.: EP 0 784 982 A2
Publication Date: July 23, 1997
Priority Data: February 7, 1996 (G.B. Appl. No. 9602409)
January 19, 1996 (U.S. Appl. No. 10257)
- B13 Title: "Obesity Protein Formulations"
Inventors: Beals *et al.*
Appl. No.: 97300301.5
Filed: January 17, 1997
Publication No.: EP 0 786 256 A2
Publication Date: July 30, 1997
Priority Data: January 19, 1996 (U.S. Appl. No. 10,244)
February 7, 1996 (G.B. Appl. No. 9,602,406)

- B14 Title: "Formulations of Obesity Protein"
Inventors: Beals *et al.*
Appl. No.: 97301995.3
Filed: March 24, 1997
Publication No.: EP 0 797 999 A2
Publication Date: October 1, 1997
Priority Data: March 26, 1996 (U.S. Appl. No. 14177)
April 5, 1996 (U.S. Appl. No. 14951)
- B54 Title: "Obesity Protein Formulations"
Inventors: Beals *et al.*
Appl. No.: PCT/US97/00864
Filed: January 17, 1997
Publication No.: WO 97/26004
Publication Date: July 24, 1997
Priority Data: January 19, 1996 (U.S. Appl. No. 60/010,229)
February 7, 1996 (GB Appl. No. 9602408.8)
- B55 Title: "Obesity Protein Formulations"
Inventors: Beals *et al.*
Appl. No.: PCT/US97/00568
Filed: January 17, 1997
Publication No.: WO 97/26011
Publication Date: July 24, 1997
Priority Data: Jan. 19, 1996 (U.S. Appl. No. 60/010,257)
February 7, 1996 (G.B. Appl. No. 9602409.6)
- B56 Title: "Obesity Protein Formulations"
Inventors: Beals *et al.*
Appl. No.: PCT/US97/00790
Filed: January 17, 1997
Publication No.: WO 97/26012
Publication Date: July 24, 1997
Priority Data: January 19, 1996 (U.S. Appl. No. 60/010,357)
February 7, 1996 (G.B. Appl. No. 9602410.4)
- B57 Title: "Obesity Protein Formulations"
Inventors: Beals *et al.*
Appl. No.: PCT/US97/00900
Filed: January 17, 1997
Publication No.: WO 97/26013
Publication Date: July 24, 1997
Priority Data: January 19, 1996 (U.S. Appl. No. 60/010,244)
February 7, 1996 (GB Appl. No. 9602406.2)

- B59 Title: "Obesity Protein Analog Compounds and Formulations Thereof"
Inventors: Hoffman *et al.*
Appl. No.: PCT/US97/01189
Filed: January 24, 1997
Publication No.: WO 97/26916
Publication Date: July 31, 1997
Priority Data: Jan. 25, 1996 (U.S. Appl. No. 60/011,055)
- B61 Title: "Obesity Protein Compounds and Formulations Thereof"
Inventor: Hoffman, J.A.
Appl. No.: PCT/US97/01188
Filed: January 24, 1997
Publication No.: WO 97/28824
Publication Date: August 14, 1997
Priority Data: Feb. 6, 1996 (U.S. Appl. No. 60/011,238)
- B63 Title: "Formulations Of OB Protein"
Inventors: Beals *et al.*
Appl. No.: PCT/US97/04914
Filed: March 24, 1997
Publication No.: WO 97/35620
Publication Date: October 2, 1997
Priority Data: March 26, 1996 (U.S. Appl. No. 60/014,177)
April 5, 1996 (U.S. Appl. No. 60/014,951)

VII. RECEPTORS

A. OB Receptors

Documents:

- A22 Title: "HU-B1.219, A Novel Human Hematopoietin Receptor"
Inventors: Snodgrass *et al.*
U.S. Patent No.: 5,643,748
U.S. Appl. No.: 306,231
Filed: September 14, 1994

- B50 Title: "The OB Receptor And Methods Of Diagnosing And Treating Weight"
Inventors: Tartaglia *et al.*
Appl. No.: PCT/US96/19128
Filed: November 27, 1996
Publication No.: WO 97/19952
Publication Date: June 5, 1997
Priority Data: Nov. 27, 1995 (U.S. Appl. No. 08/562,663)
Dec. 4, 1995 (U.S. Appl. No. 08/566,622)
Dec. 8, 1995 (U.S. Appl. No. 08/569,485)
Dec. 11, 1995 (U.S. Appl. No. 08/570,142)
Dec. 28, 1995 (U.S. Appl. No. 08/583,153)
Jan. 22, 1996 (U.S. Appl. No. 08/599,455)
April 26, 1996 (U.S. Appl. No. 08/638,524)
Sept. 3, 1996 (U.S. Appl. No. 08/708,123)
- B58 Title: "Detection of a Leptin Receptor Variant And Methods For Regulating Obesity"
Inventors: Snodgrass *et al.*
Appl. No.: PCT/US97/00881
Filed: January 17, 1997
Publication No.: WO 97/26523
Publication Date: July 24, 1997
Priority Data: January 18, 1996 (U.S. Appl. No. 08/588,526)
- B62 Title: "Rat OB Receptors And Nucleotides Encoding Them"
Inventors: Hess *et al.*
Appl. No.: PCT/US97/02397
Filed: February 18, 1997
Publication No.: WO 97/31015
Publication Date: August 28, 1997
Priority Data: Feb. 22, 1996 (U.S. Appl. No. 60/090,405)
March 22, 1996 (U.S. Appl. No. 60/013,969)
April 25, 1996 (GB Appl. No. 9608473.6)
- B64 Title: "Leptin Assay"
Inventors: Rosenblum *et al.*
Appl. No.: PCT/US97/06505
Filed: April 18, 1997
Publication No.: WO 97/40380
Publication Date: October 30, 1997
Priority Data: April 22, 1996 (U.S. Appl. No. 60/061,051)
June 6, 1996 (G.B. Appl. No. 9611785.8)
Nov. 15, 1996 (U.S. Appl. No. 60/031,002)

- B65 Title: "OB Protein Receptor Genes And Use Of The Same"
Inventors: Iida *et al.*
Appl. No.: (PCT)WOJP9701470 [97WO-J01470]
Filed: April 24, 1997
Publication No.: WO 97/41217 A1
Publication Date: November 6, 1997
Priority Data: April 30, 1996 (JP Appl. No. JP 96-134422)
- B66 Title: "Detection Of The Leptin Receptor In Reproductive Organs And Methods For Regulating Reproductive Biology"
Inventors: Snodgrass *et al.*
Appl. No.: PCT/US97/07676
Filed: April 28, 1997
Publication No.: WO 97/41263
Publication Date: November 6, 1997
Priority Data: April 29, 1996 (U.S. Appl. No. 08/640,389)
- B67 Title: "OB Receptor Isoforms And Nucleic Acids Encoding Them"
Inventors: Caskey *et al.*
Appl. No.: PCT/US97/07521
Filed: May 2, 1997
Publication No.: WO 97/42340
Publication Date: November 13, 1997
Priority Data: May 6, 1996 (U.S. Appl. No. 60/016,899)
May 24, 1996 (G.B. Appl. No. 9610995.4)
- B74 Title: "OB Protein Receptor And Related Compositions And Methods"
Inventors: Chang *et al.*
Appl. No.: PCT/US97/00128
Filed: January 2, 1997
Publication No.: WO 97/25424
Publication Date: July 17, 1997
Priority Data: Jan. 4, 1996 (U.S. Appl. No. 08/582,825)
Dec. 31, 1996 (U.S. Appl. No. 08/774,414)
- B75 Title: "OB, The Receptor For Leptin, Nucleic Acids Encoding The Receptor, And Uses Thereof"
Inventors: Friedman *et al.*
Appl. No.: PCT/US97/01010
Filed: January 16, 1997
Publication No.: WO 97/26335
Publication Date: July 24, 1997
Priority Data: Jan. 16, 1996 (U.S. Appl. No. 08/586,594)
Feb. 14, 1996 (U.S. Appl. No. 08/599,974)

B. Other

Documents:

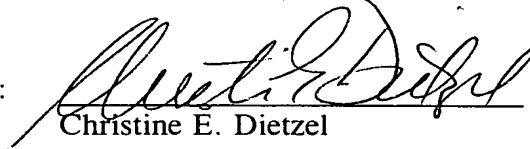
- B53 Title: "WSX Receptor And Ligands"
Inventors: Bennett *et al.*
Appl. No.: PCT/US97/00325
Filed: January 7, 1997
Publication No.: WO 97/25425
Publication Date: July 17, 1997
Priority Data: January 8, 1996 (U.S. Appl. No. 08/585,005)
June 20, 1996 (U.S. Appl. No. 08/667,197)
- B70 Title: "A Novel Haemopoietin Receptor And Genetic Sequences Encoding Same"
Inventors: Hilton *et al.*
Appl. No.: PCT/AU96/00607
Filed: September 26, 1996
Publication No.: WO 97/12037
Publication Date: April 3, 1997
Priority Data: September 26, 1995 (AU Appl. No. PN 5641)

Documents B15, B16, and B65 are Japanese language patent or patent application documents and as such are being provided with English-language abstracts. Further, document B3 is the European counterpart to document B15, while document B4 is the European counterpart to document B16.

This statement and the accompanying items of information, including a Form PTO-1449, are being submitted after receipt of a first official action on the merits in the above-identified patent application under 37 C.F.R. §1.97(c). Enclosed is a check for the requisite \$240.00 fee under §1.17(p). If it is determined that any additional fee is due, the Commissioner is hereby authorized to charge Deposit Account No. 11-1153.

Respectfully submitted,

By:



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Date: February 24, 1998